

(Following Paper ID and Roll No. to be filled in your Answer Book)

Paper ID : 110315 Roll No.

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B. TECH

(Odd Sem.-III) Theory Examination, 2016-17

OBJECT ORIENTED SYSTEMS

Time : 3 : 00 Hr.]

[Maximum Marks : 100

Note : Attempt all Sections. If require any missing data; then choose suitably.

Section-A

1. Attempt all parts. All parts carry equal mark. Write answer of each part in short : 2×10=20
 - (a) Define abstract class in java.
 - (b) What is friend function ? Explain with an example.
 - (c) Differentiate between overriding and overloading of function in java.
 - (d) What is servlet ?
 - (e) What is the nested state diagram ? Explain with suitable example.
 - (f) Discuss the synchronization of concurrent activities.
 - (g) Compare C++ with Java.
 - (h) What do you mean by candidate keys in object modeling ?
 - (i) What is inheritance in Java ?
 - (j) Define java.

(2)

Section-B

Attempt any five questions. Each question carries equal marks.

5×10=50

2. What do you mean by Scenarios ? Prepare an event trace for a phone call.
3. Why Java does not support multiple inheritances ? Justify.
4. Explain the dynamic model with an example.
5. What do you mean by object modeling technique ? Explain. Discuss the various stages of the object modeling techniques with some example.
6. What do you understand by encapsulation ? Describe with an example.
7. Is Java object oriented language? Justify the statement.
8. Write square matrix multiplication program in java.
9. What is multi threading ? How it is achieved in Java ?

Section - C

Attempt any two questions from this Section. Each question carries equal marks.

15×2=30

(3)

10. Write short notes on :
 - (a) Layout manager in Java
 - (b) Polymorphism in Java
 - (c) Object class in Java.
11. Write short note on :
 - (a) Java Database connectivity
 - (b) Jackson structured development (JSD)
 - (c) Applets in Java.
12. Attempt both :
 - (a) Write a java program to demonstrate abstraction and encapsulation.
 - (b) Write a short note on object oriented programming and compare it with Java.